

# EUROPEAN PATENT OFFICE

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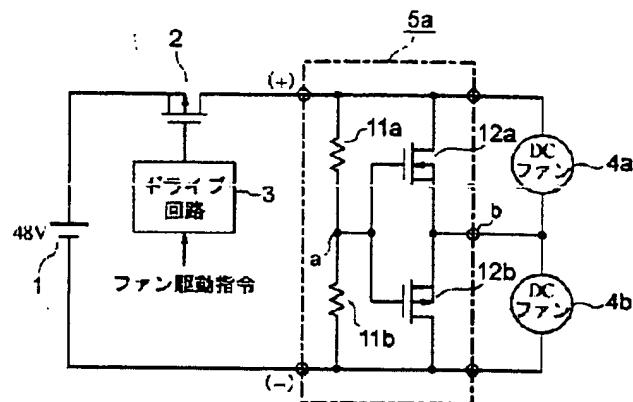
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TITLE : DC FAN DRIVE CIRCUIT



1. 直流電源  
4a,4b DC ファン

5a. 電圧バランス回路  
12a,12b. MOSFET

**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a DC fan drive circuit which makes it possible to rotate DC fans without damaging a DC fan, when there is no suitable power supply and it is necessary to drive a plurality of low voltage DC fans in serial connection, and to stop the power supply to the DC fans when an abnormality occurs.

SOLUTION: The DC fan drive circuit is provided with a voltage balancing circuit 5a using a plurality of output active elements which suppress the voltage applied to both terminals of each DC fan 4a, 4b in serial connection not exceeding an allowable voltage and make balance to a prescribed voltage. Voltage driven active elements (N type MOSFET 12a and P type MOSFET 12b) are used as the output active element for the voltage balancing circuit 5a. An abnormality detection circuit which detects a rotation binding, missing connection and the like based on a current detection in the output active element is further provided.

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